

# Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 29.09.2022 Version 2

# TEKKİM

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Catalog No. TK.920049.00000  
Product Name Silver Nitrate  
Cas no 7761-88-8

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Use as a laboratory reagent.

#### 1.2.2. Uses advised against

No information available.

### 1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.  
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA  
Telephone 0224 243 21 71  
E-mail erhan@tekkim.com.tr  
Company Representative Erhan DİLER

**1.4 Emergency Telephone Number +90 506 990 36 86**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Oxidizing solids, Category 2  
Corrosive to metals, Category 1  
Skin Corrosion, Subcategory 1B  
Serious eye damage, Category 1  
Short term (acute) aquatic hazard, Category 1  
Long (chronic) aquatic hazard, Category 1

For the full text of the H and EUH statements referred to in this section, see section 16.

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H272 May intensify fire; oxidizer.  
H290 May corrode metals.  
H314 Causes severe skin burns and eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)



Tekkim is accredited to  
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company  
www.tekkim.com.tr | tekkim@tekkim.com.tr

**Tekkim Kimya Sanayi ve Ticaret Limited Şirketi**  
**Factory:** O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY  
+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66  
**Factory:** istoc 33.ada No: 47-49-51-53  
+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

# Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 29.09.2022

Version 2



## Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

## Intervention

P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse your skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.

## SECTION 3: Composition/information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

### 3.1 Maddeler

EC No	231-853-9
Molar mass	169.87 g/mol
Cas No	7761-88-8
Concentration	(<= 100 % )

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Following inhalation	Remove casualty to fresh air and keep warm and at rest..
Following skin contact	Wash with plenty of water. Take off contaminated clothing.
Following eye contact	In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.
Following ingestion	Please give up to two glasses of water. Get immediate medical attention.. Do not induce vomiting..

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures appropriate to the environment.

Unsuitable extinguishing media

There is no restriction for this item.

### 5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NOx). Silver/silver oxides. It is not flammable. Fire may cause evolution of: nitrogen oxides. Depending on the oxygen output, it has a fire-increasing effect. All-round fire can release dangerous vapours.

### 5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

### 5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

## SECTION 6: Accidental release measures



Tekkim is accredited to  
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company  
www.tekkim.com.tr | tekkim@tekkim.com.tr

**Tekkim Kimya Sanayi ve Ticaret Limited Şirketi**

**Factory:** O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

**Factory:** istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

# Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 29.09.2022 Version 2



## 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

## 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

## 6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area. Avoid generation of dust..

## 6.4 Reference to other sections

Disposal: see section 13.

## 6.5 Additional information

Clear spills immediately.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

*Advices on safe handling*

Observe label precautions.

*Advices on general occupational hygiene*

Change contaminated clothing. Wash hands after working with substance. It is recommended to use a skin protection cream.

### 7.2 Conditions for safe storage, including any incompatibilities

*Storage conditions*

Keep container tightly closed in dry and well-ventilated places. Protect from light. Do not store near flammable materials.

### 7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

#### Personal protection equipment

*Eye/face protection*

Fully fitting safety glasses

*Hand protection*

Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness : 0,11 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness : 0,11 mm

Break through time : >480 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standard EN374.



Tekkim is accredited to  
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company  
www.tekkim.com.tr | tekkim@tekkim.com.tr

**Tekkim Kimya Sanayi ve Ticaret Limited Şirketi**  
**Factory:** O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY  
☎ +90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66  
**Factory:** istoc 33.ada No: 47-49-51-53  
☎ +90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

# Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 29.09.2022

Version 2



## Other skin protection

Protective clothing.

## Respiratory protection

Required when dusts occur.

Recommended filter type: Recommended Filter type: P2 type filter

## SECTION 9: Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state	Crystals
Colour	Colorless
Odour	Odorless
Odour threshold	Not applicable.
pH value	No information.
Melting point/freezing point	212 °C
Freezing point	No information.
Initial boiling point and boiling range	440 °C
Flash point	Not applicable.
Evaporation rate	No information.
Flammability (solid, gas)	It is not flammable.
Upper/lower flammability or explosive limits	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not applicable.
Vapour density	No information.
Density	No information.
Relative density	No information.
Water solubility (g/l)	No information.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	og Pow: 5
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	
Kinematic viscosity	Not applicable.
Dynamic viscosity	Not applicable.
Explosive properties	Not classified as explosive.
Oxidising properties	The substance and mixture are classified as subcategory 2 oxidants.

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

Section 10.3 to see.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

There is a risk of explosion with acetaldehyde, acetylene, nitriles, ammonia, ammonium hydroxide, azides, combustible materials, carbides, ethanol, fluoroacetylene, hydrazine hydrate, acetylidene, sodium hydroxide, nitromethane, organic materials, phosphorus, phosphorus hydrogen, sulfide, titanium, zinc.

There is a risk of explosion or formation of flammable gases or vapors with arsenic, oxidizing agents.

They give exothermic reaction with nonmetals, oxidizing agents, iodides, strong reducing agents, halogen-halogen compounds.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Aluminum, mild steel, metals.

### 10.6 Hazardous decomposition products



Tekkim is accredited to  
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company  
www.tekkim.com.tr | tekkim@tekkim.com.tr

**Tekkim Kimya Sanayi ve Ticaret Limited Şirketi**  
**Factory:** O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

**Factory:** istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

# Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 29.09.2022

Version 2



No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute oral toxicity

LD50 Oral - Rat - male and female - 3.804 mg/kg  
(OECD Test Guideline 401)

Acute respiratory toxicity

LC50 Inhalation - Rat - male and female - 4 h - > 0.075 mg/l  
(OECD Test Guideline 403)

Acute dermal toxicity

LD50 Dermal - Rat - male and female - > 2.000 mg/kg  
(OECD Test Guideline 402)

Skin corrosion/irritation

Skin - reconstructed human epidermis (RhE)

Abrasive - 3 - 60 min

(OECD Test Guideline 431)

Serious eye damage/eye irritation

Causes serious eye damage. Risk of permanent damage due to staining of the cornea.

### 11.2 Additional information

Absorption into the body causes the formation of methemoglobin, which, if it reaches sufficient concentration, causes cyanosis. It may take 2 to 4 hours or longer for symptoms to appear.

Handle in accordance with safety and hygiene rules.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish

semi-static test LC50 - Pimephales promelas (Carp calf) - 0.0012 mg/l - 96 h  
(US-EPA)

Toxicity to daphnia and other aquatic invertebrates

semi-static test LC50 - Daphnia magna (Water flea) - 0.00022 mg/l - 48 h  
(ECHA)

### 12.2 Persistence and degradability

Methods for measuring biological degradation cannot be applied to inorganic substances.

### 12.3 Bioaccumulative potential

Bioaccumulation

Cyprinus carpio (Carp) - 41 d  
at 20 °C(Gumusnitrate)

Bioconcentration factor (BCF): 70

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

### 12.6 Other adverse effects

Forms corrosive mixtures even when diluted.

Discharge into the environment should be prevented.

## SECTION 13: Disposal considerations

### Waste treatment methods



Tekkim is accredited to  
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company  
www.tekkim.com.tr | tekkim@tekkim.com.tr

**Tekkim Kimya Sanayi ve Ticaret Limited Şirketi**

**Factory:** O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

**Factory:** istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

# Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 29.09.2022 Version 2



It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

## SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
<b>14.1 UN number</b>				
UN 1493	UN 1493	UN 1493	UN 1493	UN 1493
<b>14.2 UN proper shipping name</b>				
SILVER NITRATE	SILVER NITRATE	SILVER NITRATE	SILVER NITRATE	SILVER NITRATE
<b>14.3 Transport hazard class(es)</b>				
5.1	5.1	5.1	5.1	5.1
<b>14.4 Packing group</b>				
II	II	II	II	II
<b>14.5 Environmental hazards</b>				
NO	NO	NO	NO	NO
No information available.	No information available.	No information available.	No information available.	No information available.

## 14.6 Special Precautions for User:

No information available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

## SECTION 16: Other informations

### Full text of H statements

- H272 May intensify fire; oxidizer.  
H290 May corrode metals.  
H314 Causes severe skin burns and eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

Person Who Prepared the Safety Data Sheet:

Name: Erhan DİLER  
Certificate Number and Date: 11.29.03 & 11 Şubat 2020  
Communication information: 05069903686



Tekkim is accredited to  
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company  
www.tekkim.com.tr | tekkim@tekkim.com.tr

**Tekkim Kimya Sanayi ve Ticaret Limited Şirketi**  
**Factory:** O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

**Factory:** istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31